

L12 ANSWER 1 OF 7 USPATFULL on STN
 AN 2004:121364 USPATFULL
 TI Process for producing aliphatic C3-C10-alcohols from **high boilers**
 IN Zgorzelski, Wolfgang, Oberhausen, GERMANY, FEDERAL REPUBLIC OF
 Glick, Wilhelm, Duisburg, GERMANY, FEDERAL REPUBLIC OF
 PI US 2004092780 A1 20040513
 AI US 2003-701416 A1 20031030 (10)
 PRAI DE 2002-10252173 20021109
 DT Utility
 FS APPLICATION
 LREP MUSERLIAN AND LUCAS AND MERCANTI, LLP, 475 PARK AVENUE SOUTH, NEW YORK, NY, 10016
 CLMN Number of Claims: 8
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 256
 AB The present invention relates to a process for producing aliphatic C.sub.3-C.sub.10-alcohols, in particular 2-**ethylhexanol**, from **high boilers** by thermal treatment in the presence of an **alkali** metal compound and subsequent **hydrogenation** of the volatile products.

L12 ANSWER 2 OF 7 USPATFULL on STN
 AN 2004:8007 USPATFULL
 TI Process for the preparation of 3, 3-dimethylbutanal
 IN Ebner, Jerry R., St. Charles, MO, UNITED STATES
 Guo, Zhi, Chicago, IL, UNITED STATES
 Hershman, Arnold, St. Louis, MO, UNITED STATES
 Klein, Loraine M., Streamwood, IL, UNITED STATES
 McGhee, William D., Fenton, MO, UNITED STATES
 Paster, Mark D., Chesterfield, MO, UNITED STATES
 Prakash, Indra, Hoffman Estates, IL, UNITED STATES
 PA The Nutrasweet Company (U.S. corporation)
 PI US 2004006247 A1 20040108
 AI US 2003-400558 A1 20030327 (10)
 RLI Division of Ser. No. US 2000-575107, filed on 19 May 2000, GRANTED, Pat. No. US 6573409
 PRAI US 1999-142122P 19990702 (60)
 DT Utility
 FS APPLICATION
 LREP SENNIGER POWERS LEAVITT AND ROEDEL, ONE METROPOLITAN SQUARE, 16TH FLOOR, ST LOUIS, MO, 63102
 CLMN Number of Claims: 164
 ECL Exemplary Claim: 1
 DRWN 10 Drawing Page(s)
 LN.CNT 4144

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB 3,3-Dimethylbutanal is prepared from 3,3-dimethylbutanol. Intermediate 3,3-dimethylbutanol is obtained by reacting ethylene, isopropylene and a mineral acid to produce a 3,3-dimethylbutyl ester which is hydrolyzed to the alcohol. The hydrolysis step is effectively carried out by reactive **distillation**. Alternatively, 3,3-dimethylbutanal is prepared from 3,3-dimethylbutanol obtained by reduction of the corresponding carboxylic acid or 1,2-epoxy-3,3-dimethylbutane, or by hydrolysis of 1-halo-3,3-dimethylbutane. Fixed bed gas phase and stirred tank liquid phase processes are provided for converting 3,3-dimethylbutanol to 3,3-dimethylbutanal by catalytic dehydrogenation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 3 OF 7 USPATFULL on STN

AN 2003:325272 USPATFULL
TI Process for the preparation of 3, 3-dimethylbutanal
IN Ebner, Jerry R., St. Charles, MO, UNITED STATES
Guo, Zhi, Chicago, IL, UNITED STATES
Hershman, Arnold, St. Louis, MO, UNITED STATES
Klein, Loraine M., Streamwood, IL, UNITED STATES
McGhee, William D., Fenton, MO, UNITED STATES
Paster, Mark D., Chesterfield, MO, UNITED STATES
Prakash, Indra, Hoffman Estates, IL, UNITED STATES
PA The Nutrasweet Company (U.S. corporation)
PI US 2003229254 A1 20031211
AI US 2003-447815 A1 20030529 (10)
RLI Continuation of Ser. No. US 2003-400558, filed on 27 Mar 2003, PENDING
Continuation of Ser. No. US 2000-575107, filed on 19 May 2000, GRANTED,
Pat. No. US 6573409
PRAI US 1999-142122P 19990702 (60)
DT Utility
FS APPLICATION
LREP SENNIGER POWERS LEAVITT AND ROEDEL, ONE METROPOLITAN SQUARE, 16TH FLOOR,
ST LOUIS, MO, 63102
CLMN Number of Claims: 164
ECL Exemplary Claim: 1
DRWN 10 Drawing Page(s)
LN.CNT 4156

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB 3,3-Dimethylbutanal is prepared from 3,3-dimethylbutanol. Intermediate 3,3-dimethylbutanol is obtained by reacting ethylene, isopropylene and a mineral acid to produce a 3,3-dimethylbutyl ester which is hydrolyzed to the alcohol. The hydrolysis step is effectively carried out by reactive **distillation**. Alternatively, 3,3-dimethylbutanal is prepared from 3,3-dimethylbutanol obtained by reduction of the corresponding carboxylic acid or 1,2-epoxy-3,3-dimethylbutane, or by hydrolysis of 1-halo-3,3-dimethylbutane. Fixed bed gas phase and stirred tank liquid phase processes are provided for converting 3,3-dimethylbutanol to 3,3-dimethylbutanal by catalytic dehydrogenation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 4 OF 7 USPATFULL on STN
AN 2003:166857 USPATFULL
TI Method for producing alkenyl ethers
IN Boettcher, Arnd, Frankenthal, GERMANY, FEDERAL REPUBLIC OF
Pinkos, Rolf, Bad Durkheim, GERMANY, FEDERAL REPUBLIC OF
Lorenz, Rudolf Erich, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
PI US 2003114715 A1 20030619
AI US 2002-240683 A1 20021003 (10)
WO 2001-EP3588 20010329
PRAI DE 2000-10017222 20000406
DT Utility
FS APPLICATION
LREP KEIL & WEINKAUF, 1350 CONNECTICUT AVENUE, N.W., WASHINGTON, DC, 20036
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 638

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Alkenyl ethers are prepared by reacting the corresponding alcohols or phenols with acetylenes in the liquid phase in the presence of basic **alkali** metal compounds and a cocatalyst comprising compounds of the formula (Ia) and/or (Ib)

R.sup.10--(CH.sub.2CH.sub.2CH.sub.2CH.sub.2O).sub.n--H (Ia)

R.sup.10--(CH.sub.2CH.sub.2CH.sub.2CH.sub.2O).sub.n--H.sup.2, (Ia)

where R.sup.1, R.sup.2 are, independently of one another,
C.sub.1-C.sub.6-alkyl or C.sub.2-C.sub.6-alkenyl, or R.sup.1 and R.sup.2
together form a butyl unit and n is 1, 2, 3, 4 or 5.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 5 OF 7 USPATFULL on STN
AN 2003:149063 USPATFULL
TI Process for the preparation of 3,3-dimethylbutanal
IN Ebner, Jerry R., St. Charles, MO, United States
Guo, Zhi, Chicago, IL, United States
Hershman, Arnold, St. Louis, MO, United States
Klein, Loraine M., Streamwood, IL, United States
McGhee, William D., Fenton, MO, United States
Paster, Mark D., Chesterfield, MO, United States
Prakash, Indra, Hoffman Estates, IL, United States
PA The Nutrasweet Company, Mt. Prospect, IL, United States (U.S.
corporation)
PI US 6573409 B1 20030603
AI US 2000-575107 20000519 (9)
PRAI US 1999-142122P 19990702 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Barts, Sammuell; Assistant Examiner: Witherspoon,
Sikarl A.
LREP Senniger, Powers, Leavitt & Roedel
CLMN Number of Claims: 104
ECL Exemplary Claim: 1
DRWN 10 Drawing Figure(s); 10 Drawing Page(s)
LN.CNT 3747

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB 3,3-Dimethylbutanal is prepared from 3,3-dimethylbutanol. Intermediate
3,3-dimethylbutanol is obtained by reacting ethylene, isopropylene and
sulfuric acid to produce a 3,3-dimethylbutyl ester which is hydrolyzed
to the alcohol. The hydrolysis step is effectively carried out by
reactive **distillation**. Alternatively, 3,3-dimethylbutanal is
prepared from 3,3-dimethylbutanol obtained by reduction of the
corresponding carboxylic acid or 1,2-epoxy-3,3-dimethylbutane, or by
hydrolysis of 1-halo-3,3-dimethylbutane. Fixed bed gas phase and stirred
tank liquid phase processes are provided for converting
3,3-dimethylbutanol to 3,3-dimethylbutanal by catalytic dehydrogenation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 6 OF 7 USPATFULL on STN
AN 2000:120921 USPATFULL
TI Process for the **distillation** of alcohols
IN Zgorzelski, Wolfgang, Oberhausen, Germany, Federal Republic of
Lappe, Peter, Dinslaken, Germany, Federal Republic of
Schalapski, Kurt, Oberhausen, Germany, Federal Republic of
Gick, Wilhelm, Duisburg, Germany, Federal Republic of
PA Celanese Chemicals Europe GmbH, Germany, Federal Republic of (non-U.S.
corporation)
PI US 6117277 20000912
WO 9626173 19960829
AI US 1997-894601 19970822 (8)
WO 1996-EP633 19960214
19970822 PCT 371 date
19970822 PCT 102(e) date
PRAI DE 1995-19506280 19950223
DT Utility
FS Granted
EXNAM Primary Examiner: Manoharan, Virginia

LREP Connolly, Bove Lodge & Hutz, LLP
CLMN Number of Claims: 19
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 201

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a process for the purification of C.sub.3
-C.sub.10 -alcohols by **distillation**, by **distilling**
the alcohols at 150 to 200° C. in the presence of 10 to 1000 ppm
of **alkali** metal hydroxide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 7 OF 7 USPATFULL on STN
AN 86:38384 USPATFULL
TI Detergent range aldehyde and alcohol mixtures and derivatives, and
process therefor
IN Forster, Denis, St. Louis, MO, United States
Schaefer, George F., Olivette, MO, United States
Barker, George E., St. Louis, MO, United States
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 4598162 19860701
AI US 1983-549524 19831104 (6)
RLI Continuation-in-part of Ser. No. US 1983-499967, filed on 1 Jun 1983,
now abandoned And a continuation-in-part of Ser. No. US 1981-272587,
filed on 11 Jun 1981, now patented, Pat. No. US 4426542 which is a
continuation-in-part of Ser. No. US 1981-256439, filed on 22 Apr 1981,
now abandoned which is a continuation of Ser. No. US 1979-104517, filed
on 17 Dec 1979, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Lone, Werren B.
LREP Kennedy, Joseph D., Williams, Jr., James W.
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 2365

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel, liquid mixtures of isomeric aldehydes and alcohols are described
in the C.sub.11 -C.sub.16 carbon range, the compounds being
characterized by a main carbon branched at the position and moderate
additional branching in most isomers; the aldehyde mixtures are prepared
by an economic route from olefins involving oxo and aldol reaction with
the reaction conducted in such a way as to give a high percentage of
aldolable product, and preferably with a base catalyzed aldol reaction
conducted under conditions to make high conversions attainable. The
aldehyde mixtures can be **hydrogenated** to alcohols and
converted to novel ethoxylates or sulfate compositions suitable for use
as biodegradable detergents; or **hydrogenated** and oxidized to
novel carboxylic acid compositions also suitable for detergent use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

(FILE 'HOME' ENTERED AT 13:05:51 ON 07 JUN 2004)

FILE 'CAPLUS, USPATFULL, CA, CAOLD' ENTERED AT 13:06:58 ON 07 JUN 2004

L1	1463 S HIGH BOILER
L2	941 S L1 AND DISTILL?
L3	292 S L2 AND HYDROGENAT?
L4	0 S L3 AND KOH/G
L5	141 S L3 AND ALKALI
L6	41 S L5 AND KOH?
L7	29 S L6 AND COLUMN
L8	1 S L7 AND NEUTRALIZATION NUMBER
L9	14 S L7 AND SODIUM HYDROXIDE
L10	11 S L9 AND POTASSIUM HYDROXIDE
L11	11 DUP REM L10 (0 DUPLICATES REMOVED)
L12	7 S L11 AND ?HEXANOL